

UPS-IND HF 1300 N1

Uninterruptible Power System Three Phase, 300 ~ 800 kVA | 480V



Features

- Online double conversion
- Inverter with three-level technologhy
- Power Factor 1.0
- Power Factor correction
- Intelligent ventilation control
- High AC/AC efficiency up to 97%
- Rectifier and inverter with 5th generation IGBT's
- Maintenance bypass
- Automatic Electronic Bypass
- Automatic ingress protection cut-off
- Battery charge management
- Intelligent monitoring system for bateries
- SNMP, RS485, MODBUS communications card
- Lead Acid batteries
- N+1 capacity and N+X+1 redundancy technologhy (Up to 8 devices)
- Ability to share battery bank for parallel systems (Lead acid batteries only)
- BESS capability (Energy Storage System)

Problems solved

- Momentary high voltage
- Momentary low voltage
- Sastained high voltage
- Sustained low voltage
- Electrical noise
- Voltage peaks
- Power supply failure
- Frequency variation
- Harmonic distortion



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Applications

- Computer equipment
- · Laboratory equipment
- Medical equipment
- Data Centers
- Security systems
- Telecommunications
- Intelligent buildings
- · Shopping centers

Complementary options

- Industronic voltage conditioner to protect the UPS
 and extend battery life
- Input and output isolation transformer
- Paralleling cabinet with external bypass without interruption



Technical specifications



6 Battery charger module
Power module stage 3
8 Power module phase 2
9 Power module phase 1
Bypass mode

Model UPS-IND HF	13300	13400	13500	13600	13800	
Input						
Capacity (kW/ kVA)	300/300	400/400	500/500	600/600	800/800	
Voltage (Vca)	277/480					
Overload protection	Input switch and bypass switch					
Line voltage range (Vca)	-40% a +15% (-25% a +15% al 100%)					
Phases	Three-phase star, 3 phases + Neutral + Ground / Delta (3 phase + ground)					
Frequency (Hz)	50/60 ± 10 %					
THDi	≤ 3% at 100% resistive load/ ≤5% al 100% nonlinear load					
Input power factor	≥ 0.99					
Output						
Overload protection	Switch on output					
Output power factor	1.0					
Voltage (Vca)	277/480					
Voltage regulation range	± 1%					
Frequency (Hz)	50/60 Hz +/-0.5%					
Waveform (THDv)	Pure sine wave, THD < 1% (Lineal load); < 3% (Non-linear load)					
Iransfer fime(ms)	0.0, True online					
Connection type	Three-phase star, 3 phase + Neutral + Ground / Delta (3 phase + Ground)					
Overload	100%-105% 60 min; 106%-125% 10 min; 126%-150% 1 min					
Efficiency	96%					
Load unbalance capability	100%					
Energy return	Supports up to 100% of it's capacity					
Peak factor	≤3.1					
Battery bank						
Voltage (Vcd)		528 (408 a 660)		576 (40	8 a 660)	
Battery type	Lead	acid (Sealed and mair	ntenance free) (Lithium o	ptional/Nickel cadnium c	potional)	
Full load backup time	Stand	ard 5 minutes lead acid /	10 minutes lithium (For long	er extended time contact fa	ctory)	
Maximum load current (A)		25 - 100		25	5-200	
Location	External bank					
Useful life time	3 to 5 years at 25°C. At higher temperatures their useful life is considerably reduced. To keep the batteries healthy we recommend recharging them at least once every 3 months and to avoid damage recharge them every 6 months					
Physical and mechanical						
Audible noise (dB)	< 75. at 1 meter < 80. at 1 meter					
MTBF (h)	233.000					
Operating temperature (°C)	-5~40					
Relative humidity	0 ~ 95% without condensation					
Maximum operating altitude (m.s.n.m.)	1500					
Cabinet	IP 20 / Steel with baked-on electrostatic epoxy painting					
Dimensions, Height x Width x Depth (mm)	1000 x 900 x 1950 1400 x 900 x			200 x 1950		
Weight (kg)(Batteries not included)	750 1150				50	
Technology						
Conversion type	Online double conversion (True online)					
Rectifier	High power factor IGBT type					
Inverter switching elements	IGBT with Pulse width modulated PWM technology					
Filters	PFC to reduce harmonic content (RMS)					
Battery status	Real time online and downloaded information with 3% accuracy					
I hermal dissipation (kBIU / h)	30.7	40.9	52.9	63.5	84.4	
Internal bypass	Two bypasses: one automatic static and one manual for maintenance					
Paralleling	N+I (up to 8 equipments)					
	CE-IEC 62040 -1, ISO 9001:2015, NOM					
Communication interface	K5485 / SNMP/ Contactos Secos / MODBUS					
Display (LCD a Color)	/ In Touch + LED's with backlight: Input and output voltage, Charging capacity, battery voltage, operating status					
AldIIII	Overioaa, abnormai input, low battery, tailure					
Specifications are subject to change and modification without notice, due	to our commitment to continue	to our commitment to continuous improvement in reliability, design and functionality of our products.				